

SAFETY DATA SHEET



pCMV-3Tag-1 Epitope Tagging Mammalian Expression Vector, Part Number 240195

Section 1. Identification

1.1 Product identifier

Product name : pCMV-3Tag-1 Epitope Tagging Mammalian Expression Vector, Part Number 240195

Part no. (chemical kit) : 240195

Part no. : pCMV-3Tag-1a Vector 240195-51
 pCMV-3Tag-1b Mammalian Expression Vector 240195-52
 pCMV-3Tag-1c Vector 240195-53

Validation date : 9/30/2021

1.2 Relevant identified uses of the substance or mixture and uses advised against

Material uses : Analytical reagent.

pCMV-3Tag-1a Vector	0.02 ml	
pCMV-3Tag-1b Mammalian Expression Vector	0.02 ml (20 µg	1 µg/µl)
pCMV-3Tag-1c Vector	0.02 ml (20 µg	1 µg/µl)

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer : Agilent Technologies, Inc.
 5301 Stevens Creek Blvd
 Santa Clara, CA 95051, USA
 800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status	: pCMV-3Tag-1a Vector	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	: pCMV-3Tag-1b Mammalian Expression Vector	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	: pCMV-3Tag-1c Vector	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

Not classified.

2.2 GHS label elements

Signal word :

Section 2. Hazards identification

	pCMV-3Tag-1a Vector	No signal word.
	pCMV-3Tag-1b Mammalian Expression Vector	No signal word.
	pCMV-3Tag-1c Vector	No signal word.
Hazard statements	: pCMV-3Tag-1a Vector	No known significant effects or critical hazards.
	pCMV-3Tag-1b Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-3Tag-1c Vector	No known significant effects or critical hazards.
<u>Precautionary statements</u>		
Prevention	: pCMV-3Tag-1a Vector	Not applicable.
	pCMV-3Tag-1b Mammalian Expression Vector	Not applicable.
	pCMV-3Tag-1c Vector	Not applicable.
Response	: pCMV-3Tag-1a Vector	Not applicable.
	pCMV-3Tag-1b Mammalian Expression Vector	Not applicable.
	pCMV-3Tag-1c Vector	Not applicable.
Storage	: pCMV-3Tag-1a Vector	Not applicable.
	pCMV-3Tag-1b Mammalian Expression Vector	Not applicable.
	pCMV-3Tag-1c Vector	Not applicable.
Disposal	: pCMV-3Tag-1a Vector	Not applicable.
	pCMV-3Tag-1b Mammalian Expression Vector	Not applicable.
	pCMV-3Tag-1c Vector	Not applicable.
Supplemental label elements	: pCMV-3Tag-1a Vector	None known.
	pCMV-3Tag-1b Mammalian Expression Vector	None known.
	pCMV-3Tag-1c Vector	None known.
<u>2.3 Other hazards</u>		
Hazards not otherwise classified	: pCMV-3Tag-1a Vector	None known.
	pCMV-3Tag-1b Mammalian Expression Vector	None known.
	pCMV-3Tag-1c Vector	None known.

Section 3. Composition/information on ingredients

Substance/mixture	: pCMV-3Tag-1a Vector	Mixture
	pCMV-3Tag-1b Mammalian Expression Vector	Mixture
	pCMV-3Tag-1c Vector	Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact	: pCMV-3Tag-1a Vector	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	pCMV-3Tag-1b Mammalian Expression Vector	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Section 4. First aid measures

	pCMV-3Tag-1c Vector	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: pCMV-3Tag-1a Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	pCMV-3Tag-1b Mammalian Expression Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	pCMV-3Tag-1c Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: pCMV-3Tag-1a Vector	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	pCMV-3Tag-1b Mammalian Expression Vector	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	pCMV-3Tag-1c Vector	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: pCMV-3Tag-1a Vector	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	pCMV-3Tag-1b Mammalian Expression Vector	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	pCMV-3Tag-1c Vector	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: pCMV-3Tag-1a Vector pCMV-3Tag-1b Mammalian Expression Vector pCMV-3Tag-1c Vector	No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: pCMV-3Tag-1a Vector pCMV-3Tag-1b Mammalian Expression Vector pCMV-3Tag-1c Vector	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: pCMV-3Tag-1a Vector pCMV-3Tag-1b Mammalian Expression Vector pCMV-3Tag-1c Vector	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Section 4. First aid measures

Ingestion	: pCMV-3Tag-1a Vector	No known significant effects or critical hazards.
	pCMV-3Tag-1b Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-3Tag-1c Vector	No known significant effects or critical hazards.
<u>Over-exposure signs/symptoms</u>		
Eye contact	: pCMV-3Tag-1a Vector	No specific data.
	pCMV-3Tag-1b Mammalian Expression Vector	No specific data.
	pCMV-3Tag-1c Vector	No specific data.
Inhalation	: pCMV-3Tag-1a Vector	No specific data.
	pCMV-3Tag-1b Mammalian Expression Vector	No specific data.
	pCMV-3Tag-1c Vector	No specific data.
Skin contact	: pCMV-3Tag-1a Vector	No specific data.
	pCMV-3Tag-1b Mammalian Expression Vector	No specific data.
	pCMV-3Tag-1c Vector	No specific data.
Ingestion	: pCMV-3Tag-1a Vector	No specific data.
	pCMV-3Tag-1b Mammalian Expression Vector	No specific data.
	pCMV-3Tag-1c Vector	No specific data.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	: pCMV-3Tag-1a Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pCMV-3Tag-1b Mammalian Expression Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pCMV-3Tag-1c Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: pCMV-3Tag-1a Vector	No specific treatment.
	pCMV-3Tag-1b Mammalian Expression Vector	No specific treatment.
	pCMV-3Tag-1c Vector	No specific treatment.
Protection of first-aiders	: pCMV-3Tag-1a Vector	No action shall be taken involving any personal risk or without suitable training.
	pCMV-3Tag-1b Mammalian Expression Vector	No action shall be taken involving any personal risk or without suitable training.
	pCMV-3Tag-1c Vector	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	: pCMV-3Tag-1a Vector	Use an extinguishing agent suitable for the surrounding fire.
	pCMV-3Tag-1b Mammalian Expression Vector	Use an extinguishing agent suitable for the surrounding fire.
	pCMV-3Tag-1c Vector	Use an extinguishing agent suitable for the surrounding fire.

Section 5. Fire-fighting measures

Unsuitable extinguishing media	: pCMV-3Tag-1a Vector	None known.
	pCMV-3Tag-1b Mammalian Expression Vector	None known.
	pCMV-3Tag-1c Vector	None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: pCMV-3Tag-1a Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
	pCMV-3Tag-1b Mammalian Expression Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
	pCMV-3Tag-1c Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: pCMV-3Tag-1a Vector	No specific data.
	pCMV-3Tag-1b Mammalian Expression Vector	No specific data.
	pCMV-3Tag-1c Vector	No specific data.

5.3 Advice for firefighters

Special protective actions for fire-fighters	: pCMV-3Tag-1a Vector	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	pCMV-3Tag-1b Mammalian Expression Vector	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	pCMV-3Tag-1c Vector	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: pCMV-3Tag-1a Vector	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	pCMV-3Tag-1b Mammalian Expression Vector	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	pCMV-3Tag-1c Vector	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: pCMV-3Tag-1a Vector	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
	pCMV-3Tag-1b Mammalian Expression Vector	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

Section 6. Accidental release measures

	pCMV-3Tag-1c Vector	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	pCMV-3Tag-1a Vector	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	pCMV-3Tag-1b Mammalian Expression Vector	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	pCMV-3Tag-1c Vector	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	pCMV-3Tag-1a Vector	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	pCMV-3Tag-1b Mammalian Expression Vector	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	pCMV-3Tag-1c Vector	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and materials for containment and cleaning up		
Methods for cleaning up	pCMV-3Tag-1a Vector	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	pCMV-3Tag-1b Mammalian Expression Vector	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	pCMV-3Tag-1c Vector	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures	: pCMV-3Tag-1a Vector	Put on appropriate personal protective equipment (see Section 8).
	pCMV-3Tag-1b Mammalian Expression Vector	Put on appropriate personal protective equipment (see Section 8).
	pCMV-3Tag-1c Vector	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: pCMV-3Tag-1a Vector	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	pCMV-3Tag-1b Mammalian Expression Vector	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	pCMV-3Tag-1c Vector	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: pCMV-3Tag-1a Vector	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	pCMV-3Tag-1b Mammalian Expression Vector	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	pCMV-3Tag-1c Vector	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled

Section 7. Handling and storage

containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations	: pCMV-3Tag-1a Vector pCMV-3Tag-1b Mammalian Expression Vector pCMV-3Tag-1c Vector	Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: pCMV-3Tag-1a Vector pCMV-3Tag-1b Mammalian Expression Vector pCMV-3Tag-1c Vector	Not available. Not available. Not available.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
None.	

8.2 Exposure controls

Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	:	pCMV-3Tag-1a Vector	Liquid.
		pCMV-3Tag-1b Mammalian Expression Vector	Liquid.
		pCMV-3Tag-1c Vector	Liquid.
Color	:	pCMV-3Tag-1a Vector	Not available.
		pCMV-3Tag-1b Mammalian Expression Vector	Not available.
		pCMV-3Tag-1c Vector	Not available.
Odor	:	pCMV-3Tag-1a Vector	Not available.
		pCMV-3Tag-1b Mammalian Expression Vector	Not available.
		pCMV-3Tag-1c Vector	Not available.
Odor threshold	:	pCMV-3Tag-1a Vector	Not available.
		pCMV-3Tag-1b Mammalian Expression Vector	Not available.
		pCMV-3Tag-1c Vector	Not available.
pH	:	pCMV-3Tag-1a Vector	Not available.
		pCMV-3Tag-1b Mammalian Expression Vector	7.5
		pCMV-3Tag-1c Vector	7.5
Melting point/freezing point	:	pCMV-3Tag-1a Vector	0°C (32°F)
		pCMV-3Tag-1b Mammalian Expression Vector	0°C (32°F)
		pCMV-3Tag-1c Vector	0°C (32°F)
Boiling point, initial boiling point, and boiling range	:	pCMV-3Tag-1a Vector	100°C (212°F)
		pCMV-3Tag-1b Mammalian Expression Vector	100°C (212°F)
		pCMV-3Tag-1c Vector	100°C (212°F)

Flash point

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
pCMV-3Tag-1a Vector						
Edetic acid	>100	>212	DIN 51758			
pCMV-3Tag-1b Mammalian Expression Vector						
Edetic acid	>100	>212	DIN 51758			
pCMV-3Tag-1c Vector						
Edetic acid	>100	>212	DIN 51758			

Evaporation rate	:	pCMV-3Tag-1a Vector	Not available.
		pCMV-3Tag-1b Mammalian Expression Vector	Not available.
		pCMV-3Tag-1c Vector	Not available.
Flammability	:	pCMV-3Tag-1a Vector	Not applicable.
		pCMV-3Tag-1b Mammalian Expression Vector	Not applicable.
		pCMV-3Tag-1c Vector	Not applicable.

Section 9. Physical and chemical properties and safety characteristics

Lower and upper explosion limit/flammability limit : pCMV-3Tag-1a Vector Not available.
 pCMV-3Tag-1b Mammalian Expression Vector Not available.
 pCMV-3Tag-1c Vector Not available.

Vapor pressure :

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
pCMV-3Tag-1a Vector						
Water	23.8	3.2				
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0	0		0.000007501	0.000001	
pCMV-3Tag-1b Mammalian Expression Vector						
Water	23.8	3.2				
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0	0		0.000007501	0.000001	
pCMV-3Tag-1c Vector						
Water	23.8	3.2				
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0	0		0.000007501	0.000001	

Relative vapor density : pCMV-3Tag-1a Vector Not available.
 pCMV-3Tag-1b Mammalian Expression Vector Not available.
 pCMV-3Tag-1c Vector Not available.

Relative density : pCMV-3Tag-1a Vector Not available.
 pCMV-3Tag-1b Mammalian Expression Vector Not available.
 pCMV-3Tag-1c Vector Not available.

Solubility : pCMV-3Tag-1a Vector Easily soluble in the following materials: cold water and hot water.
 pCMV-3Tag-1b Mammalian Expression Vector Easily soluble in the following materials: cold water and hot water.
 pCMV-3Tag-1c Vector Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/water : pCMV-3Tag-1a Vector Not applicable.
 pCMV-3Tag-1b Mammalian Expression Vector Not applicable.
 pCMV-3Tag-1c Vector Not applicable.

Auto-ignition temperature :

Ingredient name	°C	°F	Method
pCMV-3Tag-1a Vector			
Edetic acid	>400	>752	VDI 2263
pCMV-3Tag-1b Mammalian Expression Vector			
Edetic acid	>400	>752	VDI 2263
pCMV-3Tag-1c Vector			

Section 9. Physical and chemical properties and safety characteristics

	Edetic acid	>400	>752	VDI 2263
Decomposition temperature	pCMV-3Tag-1a Vector pCMV-3Tag-1b Mammalian Expression Vector pCMV-3Tag-1c Vector	Not available. Not available.		
Viscosity	pCMV-3Tag-1a Vector pCMV-3Tag-1b Mammalian Expression Vector pCMV-3Tag-1c Vector	Not available. Not available. Not available.		
Particle characteristics				
Median particle size	pCMV-3Tag-1a Vector pCMV-3Tag-1b Mammalian Expression Vector pCMV-3Tag-1c Vector	Not applicable. Not applicable. Not applicable.		

Section 10. Stability and reactivity

10.1 Reactivity	pCMV-3Tag-1a Vector pCMV-3Tag-1b Mammalian Expression Vector pCMV-3Tag-1c Vector	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	pCMV-3Tag-1a Vector pCMV-3Tag-1b Mammalian Expression Vector pCMV-3Tag-1c Vector	The product is stable. The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	pCMV-3Tag-1a Vector pCMV-3Tag-1b Mammalian Expression Vector pCMV-3Tag-1c Vector	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	pCMV-3Tag-1a Vector pCMV-3Tag-1b Mammalian Expression Vector pCMV-3Tag-1c Vector	No specific data. No specific data. No specific data.
10.5 Incompatible materials	pCMV-3Tag-1a Vector pCMV-3Tag-1b Mammalian Expression Vector pCMV-3Tag-1c Vector	May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials.
10.6 Hazardous decomposition products	pCMV-3Tag-1a Vector pCMV-3Tag-1b Mammalian Expression Vector pCMV-3Tag-1c Vector	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	: pCMV-3Tag-1a Vector	Not available.
	pCMV-3Tag-1b Mammalian Expression Vector	Not available.
	pCMV-3Tag-1c Vector	Not available.

Potential acute health effects

Eye contact	: pCMV-3Tag-1a Vector	No known significant effects or critical hazards.
	pCMV-3Tag-1b Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-3Tag-1c Vector	No known significant effects or critical hazards.
Inhalation	: pCMV-3Tag-1a Vector	No known significant effects or critical hazards.
	pCMV-3Tag-1b Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-3Tag-1c Vector	No known significant effects or critical hazards.
Skin contact	: pCMV-3Tag-1a Vector	No known significant effects or critical hazards.
	pCMV-3Tag-1b Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-3Tag-1c Vector	No known significant effects or critical hazards.
Ingestion	: pCMV-3Tag-1a Vector	No known significant effects or critical hazards.
	pCMV-3Tag-1b Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-3Tag-1c Vector	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: pCMV-3Tag-1a Vector	No specific data.
	pCMV-3Tag-1b Mammalian Expression Vector	No specific data.
	pCMV-3Tag-1c Vector	No specific data.

Section 11. Toxicological information

Inhalation	: pCMV-3Tag-1a Vector	No specific data.
	pCMV-3Tag-1b Mammalian Expression Vector	No specific data.
	pCMV-3Tag-1c Vector	No specific data.
Skin contact	: pCMV-3Tag-1a Vector	No specific data.
	pCMV-3Tag-1b Mammalian Expression Vector	No specific data.
	pCMV-3Tag-1c Vector	No specific data.
Ingestion	: pCMV-3Tag-1a Vector	No specific data.
	pCMV-3Tag-1b Mammalian Expression Vector	No specific data.
	pCMV-3Tag-1c Vector	No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	: pCMV-3Tag-1a Vector	No known significant effects or critical hazards.
	pCMV-3Tag-1b Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-3Tag-1c Vector	No known significant effects or critical hazards.
Carcinogenicity	: pCMV-3Tag-1a Vector	No known significant effects or critical hazards.
	pCMV-3Tag-1b Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-3Tag-1c Vector	No known significant effects or critical hazards.
Mutagenicity	: pCMV-3Tag-1a Vector	No known significant effects or critical hazards.
	pCMV-3Tag-1b Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-3Tag-1c Vector	No known significant effects or critical hazards.
Reproductive toxicity	: pCMV-3Tag-1a Vector	No known significant effects or critical hazards.
	pCMV-3Tag-1b Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-3Tag-1c Vector	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

N/A

Section 12. Ecological information

12.1 Toxicity

Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

12.5 Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / IMDG / IATA : Not regulated.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined
Clean Water Act (CWA) 311: Edetic acid

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification	: pCMV-3Tag-1a Vector	Not applicable.
	pCMV-3Tag-1b Mammalian Expression Vector	Not applicable.
	pCMV-3Tag-1c Vector	Not applicable.

Composition/information on ingredients

No products were found.

State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Section 15. Regulatory information

Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Europe	: All components are listed or exempted.
Japan	: Japan inventory (CSCL) : All components are listed or exempted. Japan inventory (ISHL) : All components are listed or exempted.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: <input checked="" type="checkbox"/> All components are active or exempted.
Viet Nam	: <input checked="" type="checkbox"/> All components are listed or exempted.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
Not classified.	

History

Date of issue	: 09/30/2021
Date of previous issue	: 05/23/2019
Version	: 6

Key to abbreviations

: ATE = Acute Toxicity Estimate
: BCF = Bioconcentration Factor
: GHS = Globally Harmonized System of Classification and Labelling of Chemicals
: IATA = International Air Transport Association
: IBC = Intermediate Bulk Container
: IMDG = International Maritime Dangerous Goods
: LogPow = logarithm of the octanol/water partition coefficient
: MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
: N/A = Not available
: UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.